

**M 6.0, 108 km E of Ohonua, Tonga**

Origin Time: 2022-04-19 04:33:41 UTC (Mon 16:33:41 local)  
Location: 21.4509° S 173.9149° W Depth: 10.0 km

**PAGER  
Version 2**

Created: 2 hours, 3 minutes after earthquake

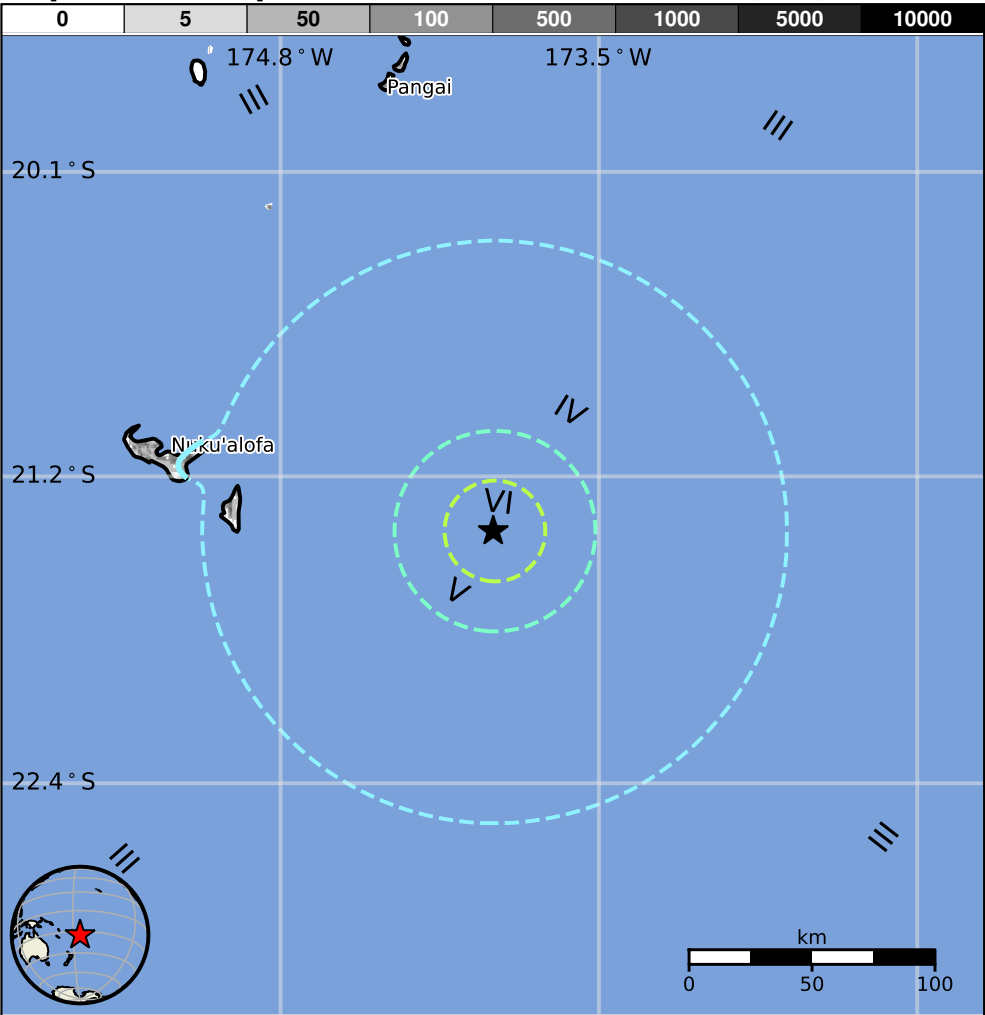


**Estimated Population Exposed to Earthquake Shaking**

| ESTIMATED POPULATION EXPOSURE (k=x1000) |                       | —*       | 45k*   | 47k   | 0        | 0        | 0           | 0          | 0        | 0        |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY   |                       | I        | II-III | IV    | V        | VI       | VII         | VIII       | IX       | X+       |
| PERCEIVED SHAKING                       |                       | Not felt | Weak   | Light | Moderate | Strong   | Very Strong | Severe     | Violent  | Extreme  |
| POTENTIAL DAMAGE                        | Resistant Structures  | None     | None   | None  | V. Light | Light    | Moderate    | Mod./Heavy | Heavy    | V. Heavy |
|   | Vulnerable Structures | None     | None   | None  | Light    | Moderate | Mod./Heavy  | Heavy      | V. Heavy | V. Heavy |

\*Estimated exposure only includes population within the map area.

**Population Exposure**



**Structures**

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unknown/miscellaneous types and wood construction.

**Historical Earthquakes**

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1977-06-22 | 248        | 8.0  | VII(47k)   | 0              |
| 1983-03-21 | 141        | 6.7  | VII(53k)   | —              |
| 2006-05-03 | 145        | 8.0  | VIII(7k)   | 0              |

**Selected City Exposure**

from GeoNames.org

| MMI | City              | Population |
|-----|-------------------|------------|
| IV  | 'Ohonua           | 1k         |
| III | <b>Pangai</b>     | 2k         |
| III | Vaini             | 3k         |
| III | Haveluloto        | 3k         |
| IV  | <b>Nuku'alofa</b> | 22k        |